RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: _10/584,338_
Source: _1FWP_
Date Processed by STIC: _7/7/06_

ENTERED

IFWP

RAW SEQUENCE LISTING   DATE: 07/07/2006
PATENT APPLICATION: US/10/584,338   TIME: 14:33:49

Input Set : **A:\CYTHERA045NP.TXT**
Output Set: **N:\CRF4\07072006\J584338.raw**

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 4 <110> APPLICANT: NOVOCELL, INC.
 5        D'Amour, Kevin Allen
 6        Agulnick, Alan D.
 7        Baetge, Emmanuel E.
10 <120> TITLE OF INVENTION: DEFINITIVE ENDODERM
13 <130> FILE REFERENCE: CYTHERA.045NP
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C--> `15 <140> CURRENT APPLICATION NUMBER: US/10/584,338`
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16 <141> CURRENT FILING DATE: 2006-06-23
18 <150> PRIOR APPLICATION NUMBER: PCT/US2004/043696
19 <151> PRIOR FILING DATE: 2004-12-23
21 <150> PRIOR APPLICATION NUMBER: 60/532004
22 <151> PRIOR FILING DATE: 2003-12-23
24 <150> PRIOR APPLICATION NUMBER: 60/586566
25 <151> PRIOR FILING DATE: 2004-07-09
27 <150> PRIOR APPLICATION NUMBER: 60/587942
28 <151> PRIOR FILING DATE: 2004-07-14
30 <160> NUMBER OF SEQ ID NOS: 2
32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 1245
36 <212> TYPE: DNA
37 <213> ORGANISM: Homo sapiens
39 <400> SEQUENCE: 1
40 atgagcagcc cggatgcggg atacgccagt gacgaccaga gccagaccca gagcgcgctg 60
41 cccgcggtga tggccgggct gggcccctgc ccctgggccg agtcgctgag ccccatcggg 120
42 gacatgaagg tgaagggcga ggcgccggcg aacagcggag caccggccgg ggccgcgggc 180
43 cgagccaagg gcgagtcccg tatccggcgg ccgatgaacg ctttcatggt gtgggctaag 240
44 gacgagcgca agcggctggc gcagcagaat ccagacctgc acaacgccga gttgagcaag 300
45 atgctgggca agtcgtggaa ggcgctgacg ctggcggaga agcggccctt cgtggaggag 360
46 gcagagcggc tgcgcgtgca gcacatgcag gaccacccca actacaagta ccggccgcgg 420
47 cggcgcaagc aggtgaagcg gctgaagcgg gtggagggcg gcttcctgca cggcctggct 480
48 gagccgcagg cggccgcgct gggcccccgag ggcggccgcg tggccatgga cggcctgggc 540
49 ctccagttcc ccgagcaggg cttccccgcc ggcccgccgc tgctgcctcc gcacatgggc 600
50 ggccactacc gcgactgcca gagtctgggc gcgcctccgc tcgacggcta cccgttgccc 660
51 acgcccgaca cgtccccgct ggacggcgtg gaccccgacc cggctttctt cgccgccccg 720
52 atgcccgggg actgcccggc ggccggcacc tacagctacg cgcaggtctc ggactacgct 780
53 ggcccccccgg agcctcccgc cggtcccatg cacccccgac tcggcccaga gcccgcgggt 840
54 ccctcgattc cgggcctcct ggcgccaccc agcgcccttc acgtgtacta cggcgcgatg 900
55 ggctcgcccg gggcgggcgg cgggcgcggc ttccagatgc agccgcaaca ccagcaccag 960
56 caccagcacc agcaccaccc cccgggcccc ggacagccgt cgccccctcc ggaggcactg 1020
57 ccctgccggg acggcacgga ccccagtcag cccgccgagc tcctcgggga ggtggaccgc 1080
58 acggaatttg aacagtatct gcacttcgtg tgcaagcctg agatgggcct cccctaccag 1140
59 gggcatgact ccggtgtgaa tctcccccgac agccacgggg ccatttcctc ggtggtgtcc 1200
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62 <210> SEQ ID NO: 2
63 <211> LENGTH: 414
64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 2
68 Met Ser Ser Pro Asp Ala Gly Tyr Ala Ser Asp Asp Gln Ser Gln Thr
69  1               5                   10                  15
70 Gln Ser Ala Leu Pro Ala Val Met Ala Gly Leu Gly Pro Cys Pro Trp
71             20                  25                  30
72 Ala Glu Ser Leu Ser Pro Ile Gly Asp Met Lys Val Lys Gly Glu Ala
73             35                  40                  45
74 Pro Ala Asn Ser Gly Ala Pro Ala Gly Ala Ala Gly Arg Ala Lys Gly
75     50                  55                  60
76 Glu Ser Arg Ile Arg Arg Pro Met Asn Ala Phe Met Val Trp Ala Lys
77 65                  70                  75                  80
78 Asp Glu Arg Lys Arg Leu Ala Gln Gln Asn Pro Asp Leu His Asn Ala
79             85                  90                  95
80 Glu Leu Ser Lys Met Leu Gly Lys Ser Trp Lys Ala Leu Thr Leu Ala
81             100                 105                 110
82 Glu Lys Arg Pro Phe Val Glu Glu Ala Glu Arg Leu Arg Val Gln His
83             115                 120                 125
84 Met Gln Asp His Pro Asn Tyr Lys Tyr Arg Pro Arg Arg Arg Lys Gln
85     130                 135                 140
86 Val Lys Arg Leu Lys Arg Val Glu Gly Gly Phe Leu His Gly Leu Ala
87 145                 150                 155                 160
88 Glu Pro Gln Ala Ala Ala Leu Gly Pro Glu Gly Gly Arg Val Ala Met
89             165                 170                 175
90 Asp Gly Leu Gly Leu Gln Phe Pro Glu Gln Gly Phe Pro Ala Gly Pro
91             180                 185                 190
92 Pro Leu Leu Pro Pro His Met Gly Gly His Tyr Arg Asp Cys Gln Ser
93             195                 200                 205
94 Leu Gly Ala Pro Pro Leu Asp Gly Tyr Pro Leu Pro Thr Pro Asp Thr
95     210                 215                 220
96 Ser Pro Leu Asp Gly Val Asp Pro Asp Pro Ala Phe Phe Ala Ala Pro
97 225                 230                 235                 240
98 Met Pro Gly Asp Cys Pro Ala Ala Gly Thr Tyr Ser Tyr Ala Gln Val
99             245                 250                 255
100 Ser Asp Tyr Ala Gly Pro Pro Glu Pro Pro Ala Gly Pro Met His Pro
101             260                 265                 270
102 Arg Leu Gly Pro Glu Pro Ala Gly Pro Ser Ile Pro Gly Leu Leu Ala
103             275                 280                 285
104 Pro Pro Ser Ala Leu His Val Tyr Tyr Gly Ala Met Gly Ser Pro Gly
105     290                 295                 300
106 Ala Gly Gly Gly Arg Gly Phe Gln Met Gln Pro Gln His Gln His Gln
107 305                 310                 315                 320
108 His Gln His Gln His His Pro Pro Gly Pro Gly Gln Pro Ser Pro Pro
109             325                 330                 335
110 Pro Glu Ala Leu Pro Cys Arg Asp Gly Thr Asp Pro Ser Gln Pro Ala
```

```
111               340                  345                  350
112 Glu Leu Leu Gly Glu Val Asp Arg Thr Glu Phe Glu Gln Tyr Leu His
113         355                  360                  365
114 Phe Val Cys Lys Pro Glu Met Gly Leu Pro Tyr Gln Gly His Asp Ser
115     370                  375                  380
116 Gly Val Asn Leu Pro Asp Ser His Gly Ala Ile Ser Ser Val Val Ser
117 385                  390                  395                  400
118 Asp Ala Ser Ser Ala Val Tyr Tyr Cys Asn Tyr Pro Asp Val
119                 405                  410
```

VERIFICATION SUMMARY   DATE: 07/07/2006
PATENT APPLICATION: **US/10/584,338**   TIME: 14:33:50

Input Set : **A:\CYTHERA045NP.TXT**
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L:15 M:270 C: Current Application Number differs, Replaced Current Application Number